

## eDWR – Quick Reference Guide for Laboratories

### Submitting Analytical Results for Safe Drinking Water Act Compliance Monitoring

Reporting Parameter (SDWIS Analyte Code)	e2 Reporting Capability	Comments
Asbestos (1094)	Yes	<p>Asbestos samples are to be submitted to the E2 system as Sample Type Routine. Asbestos samples are typically collected at the Distribution System (Water Facility State Code: DS), or at the Point of Entry (Water Facility State Code: e.g. TP001001, or WL002005, or CH003009). In both instances, the Sample Point ID is always the same as the Water Facility State Code selected.</p> <p>Report results in Mfl (Millions of fibers per liter)</p> <p><b><u>Important Note(s):</u></b></p> <p>1. Aggressive indicator results must be submitted via paper with the asbestos waiver application. These samples should not be submitted electronically through the E2 system.</p>
Bromate (1011) & Bromide (1004)	Yes	<p>Bromate and bromide samples are to be submitted to the E2 system as Sample Type Routine. <b>Bromate</b> samples are collected at the Treatment Plant (TP). The Water Facility State Code should be a value such as TP001001. The Sample Point ID is always the same as the Water Facility State Code. Please note that the MRL for bromate is method dependent. Routine bromide samples are to be collected at the Intake (IN). The Water Facility State Code should be a value such as IN011021. The Sample Point ID is always the same as the Water Facility State Code.</p> <p>Report results for both parameters in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).</p>

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Child Care Data	Yes	<p>As of November 1, 2014, <u>all</u> samples related to child care requirements are to be submitted to the E2 system – <u>even if the child care facility is a non-public or transient system</u>. The samples are to be submitted as Sample Type “Routine”. All child care related samples should also have a value of “Yes” in the Compliance Sample field of both the General Chemistry and Coliform Excel spreadsheet templates. Submit all child care related coliform samples utilizing the Coliform Excel template. All other child care related parameters should utilize the General Chemistry Excel template.</p> <p><b><u>Important Notes:</u></b></p> <ol style="list-style-type: none"> <li>1. On both the Coliform and General Chemistry templates, set the Replacement Indicator field to “No”.</li> <li>2. Please contact Linda Walsh at the Bureau of Safe Drinking Water if a non-public child care facility needs a PWSID number.</li> <li>3. <u>Drinking Water Watch (DWW) and data for child care requirements:</u></li> </ol> <p>For a child care facility that is classified as a <i>non-public</i> water system, all of the sample results (except for coliform) can be viewed in DWW. You must click on the “By Contaminant Name” option listed under the Chemical Results menu in DWW to view the data. At present, coliform results submitted for a child care that is classified as a non-public system cannot be viewed in DWW.</p> <p>For a child care facility that is classified as a transient or a non-transient water system, the sampling data that is related <i>only</i> to child care requirements (i.e., not part of routine compliance monitoring) can be viewed by clicking on the “By Contaminant Name” option listed under the Chemical Results menu in DWW. Sampling data that is for routine compliance monitoring can be viewed as you normally would.</p>
Chlorite (1009) & Chlorine Dioxide (1008)	Yes	<p>The <u>monthly</u> chlorite samples are to be submitted to the E2 system as Sample Type Routine. The <u>daily</u> chlorite monitoring samples collected at the Point Of Entry (POE) are</p>

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		<p>still to be submitted via paper on the Monthly Operator Reports. Chlorite samples are collected in the Distribution System (Water Facility State Code: DS). The Sample Point ID for chlorite samples should be CLO2MAX, CLO2FIRST or CLO2AVG.</p> <p>Chlorine dioxide is required to be collected daily at the POE and in the Distribution System only when the POE sample has exceeded the MRDL. Only samples that have exceeded the MRDL can be submitted via E2. The daily POE samples must still be submitted on paper via the Monthly Operator Reports. Chlorine dioxide samples submitted to the E2 system should have a Sample Type of Routine. Chlorine dioxide samples are collected in the Distribution System (Water Facility State Code: DS). The Sample Point ID for chlorine dioxide samples will be CLO2FIRST.</p> <p>Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter) for these parameters.</p>
<u>Coliform (Total Coliform Rule):</u>  Total Coliform (3100), E.Coli (3014), Fecal Coliform (3013)	Yes	<p>Routine and Repeat samples are collected in the Distribution System (Water Facility State Code: DS). The Sample Point ID is always the same as the Water Facility State Code (i.e. DS).</p> <p>All repeat samples submitted <u>must</u> also include the original lab sample number of the routine positive so that the repeat sample can be linked to the original positive routine sample.</p> <p><b><u>Important note(s):</u></b></p> <ol style="list-style-type: none"> <li>1. You may submit the original routine samples with the associated repeat samples in the same submission.</li> <li>2. A street address location must be reported in the Street Address Location field for all coliform samples.</li> <li>3. E2 will now accept the submittal of repeat samples on repeat samples. When submitting a repeat for a repeat, ensure the sample number of the original repeat sample is in the “Original Lab Sample Number” field.</li> </ol>

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Copper (1022)	Yes	<p>Copper samples are to be submitted to the E2 system as Sample Type Routine. Copper samples are typically collected in the Distribution System (Water Facility State Code: DS). The Sample Point ID is always the same as the Water Facility State Code (i.e. DS).</p> <p><b><u>Important note(s):</u></b></p> <ol style="list-style-type: none"> <li>1. Copper routine samples collected for Water Quality monitoring requirements are taken at the Point of Entry. Refer to Water Quality section below.</li> <li>2. A street address location must be reported in the Street Address Location field for copper samples.</li> </ol> <p>Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).</p>
<u>Disinfection By-Product Precursor Compliance Report:</u>  Alkalinity (1927) & Total Organic Carbon (2920)	No	<u>Do not</u> submit using e-DWR. Paper reporting required at this time
<u>Disinfection Residuals Report:</u>  Chlorine Residual (1012), or Chloramine Residual (1006)	No	<u>Do not</u> submit using e-DWR. Paper reporting required at this time.

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<u>Ground Water Rule (GWR)</u>	Yes	<p><b><u>Important note(s):</u></b></p> <ol style="list-style-type: none"> <li>1. Add the residual chlorine results to the Street Address Location field for all GWR samples (both initial and confirmation). Be sure to include the units when reporting the residual.</li> <li>2. If a routine coliform sample is positive, this triggers the requirement under the GWR that a source water sample (taken from a raw water tap) must be collected. If this initial triggered source water sample is E. coli positive, then 5 additional source water samples must be collected. These additional source water samples must be submitted to E2 using the <b>General Chemistry</b> Excel template because they have a Sample Category of General Chemistry (GC) and a Sample Code of Confirmation (CO). For confirmation samples, please include a value in the Original Lab Sample Number field. This value should be the Sample ID of the initial triggered GWR sample. Also, please indicate the results of the analysis by placing a “P” (for presence) or “A” (for absence) in the result field of the General Chemistry field of the E2 Excel General Chemistry spreadsheet form.</li> <li>3. Please add “GWR” to the end of any sample numbers of samples submitted for the GWR.</li> <li>4. If your system serves &lt; 1,000 and you are using a TCR repeat sample to satisfy the GWR triggered source water sample requirement, the sample does not need to be entered twice. The E2/SDWIS system is set up to identify those samples that satisfy both the TCR and the GWR. However, entering the sample twice under both the TCR and GWR is also permitted. If entered once, it must be entered under the “WL” Water Facility State Code. If entered twice, one must be entered under the “WL” Water Facility State Code, and the other must be entered as a “DS” Distribution sample.</li> <li>5. Do not populate the Original Lab Sample Number field when submitting the initial triggered GWR sample.</li> <li>6. The initial triggered GWR sample must be submitted using the Total Coliform</li> </ol>

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		<p>Excel Spreadsheet template.</p> <p>7. When submitting the confirmation GWR samples, please include the result for both the total coliform (SDWIS Code: 3100) and the E.coli (SDWIS Code: 3014) if the result was positive.</p> <p>8. GWR Assessment Monitoring samples can now be submitted via E2. Assessment Monitoring samples are collected at the well (i.e. Water Facility State Code WL001001). The Sample Point ID is always the same as the Water Facility State Code (i.e. WL001001). Assessment Monitoring samples are sample type routine and are submitted on the Coliform Excel spreadsheet template. Do not populate the Original Lab Sample Number field with Assessment Monitoring samples.</p> <p>9. Please add “AMGWR” at the end of the sample number for Assessment Monitoring samples</p> <p><b><u>GWR Example:</u></b></p> <table><tr><th><u>Sample Type</u></th><th><u>Facility Code</u></th><th><u>Sampling Point</u></th><th><u>Sample No.</u></th><th><u>Sample Code</u></th></tr><tr><td>Routine positive</td><td>DS</td><td>DS</td><td>1234</td><td>Routine</td></tr><tr><td>Initial triggered source water</td><td>WL001001</td><td>WL001001</td><td>1234GWR</td><td>Routine</td></tr><tr><td>Additional source water</td><td>WL001001</td><td>WL001001</td><td>1234-2GWR</td><td>Confirmation</td></tr><tr><td>Assessment source water</td><td>WL001001</td><td>WL001001</td><td>56-AMGWR</td><td>Routine</td></tr></table>	<u>Sample Type</u>	<u>Facility Code</u>	<u>Sampling Point</u>	<u>Sample No.</u>	<u>Sample Code</u>	Routine positive	DS	DS	1234	Routine	Initial triggered source water	WL001001	WL001001	1234GWR	Routine	Additional source water	WL001001	WL001001	1234-2GWR	Confirmation	Assessment source water	WL001001	WL001001	56-AMGWR	Routine
<u>Sample Type</u>	<u>Facility Code</u>	<u>Sampling Point</u>	<u>Sample No.</u>	<u>Sample Code</u>																							
Routine positive	DS	DS	1234	Routine																							
Initial triggered source water	WL001001	WL001001	1234GWR	Routine																							
Additional source water	WL001001	WL001001	1234-2GWR	Confirmation																							
Assessment source water	WL001001	WL001001	56-AMGWR	Routine																							
<u>Haloacetic Acid Report (HAA5):</u>  Monochloroacetic Acid (2450), Dichloroacetic Acid (2451), Trichloroacetic Acid (2452), Monobromoacetic Acid (2453), Dibromoacetic Acid (2454)	Yes	<p>Routine analytical samples are to be collected from specific Stage 2 sample points. The specific Stage 2 sample point designations are listed in the Reference Data link under the Laboratory module of the E2 system. The Water Facility State Code should be populated with a value of DS (Distribution System) for all samples. The specific sample point found in the E2 Reference Data section must be inputted <u>exactly</u> as it is listed under the E2 Reference Data section or it will be rejected.</p> <p>Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).</p>																									

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<u>Interim Enhanced Surface Water Treatment Rule (IESWTR) Turbidity Report:</u>  Turbidity (0100)	No	<u>Do not</u> submit using e-DWR. Paper reporting required at this time.
Individual Filter Assessment Report	No	<u>Do not</u> submit using e-DWR. Paper reporting required at this time.
Individual Filter Exception Report	No	<u>Do not</u> submit using e-DWR. Paper reporting required at this time.
<u>Inorganic Compounds:</u> Antimony (1074), Arsenic (1005), Barium (1010), Beryllium (1075), Cadmium (1015), Chromium (1020), Cyanide (1024), Fluoride (1025), Mercury (1035), Nickel (1036), Selenium (1045), Thallium (1085), Sodium (1052)	Yes	Routine samples are collected at the Point of Entry (Water Facility State Code: e.g. TP001001, or WL002005, or CH003009). The Sample Point ID is always the same as the Water Facility State Code. For example, if the sample was collected at Water System Facility WL001001, the Point of Entry Sampling Point ID is also WL001001.  Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).
Iron (1028) & Manganese (1032)	Yes	Routine samples collected to satisfy distribution monitoring requirements are collected in the Distribution System (Water Facility State Code: DS). The Sample Point ID is always the same as the Water Facility State Code (i.e. DS).  Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).

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		<p><b><u>Important note(s):</u></b></p> <p>1. Iron and Manganese samples collected for Secondary compliance are collected at the Point of Entry. Refer to Secondary section below.</p>
Lead (1030)	Yes	<p>Routine samples are collected in the Distribution System (Water Facility State Code: DS). The Sample Point ID is always the same as Water Facility State Code (i.e. DS).</p> <p>Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).</p> <p><b><u>Important note(s):</u></b></p> <p>1. Lead routine samples collected for Water Quality monitoring requirements are taken at the Point of Entry. Refer to Water Quality below.</p> <p>2. A street address location must be provided in the Street Address Location field for lead samples.</p>
Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWR) Cryptosporidium (3015) Giardia (3008) E-coli (3014) Turbidity (0100)	No	<p><u>Do not</u> submit using e-DWR. Paper reporting will be required when LT2 monitoring begins. Paper forms will be available on the website at <a href="http://www.state.nj.us/dep/watersupply/dws_report.html">http://www.state.nj.us/dep/watersupply/dws_report.html</a> shortly.</p> <p><i>Note: Monitoring begins in April 2015 for systems on schedule 1.</i></p> <p><b><u>Important note(s):</u></b></p> <p>1. Do not submit e-coli samples required under the LT2ESWR via the E2 system. You must submit these samples via paper only. Please continue to submit e-coli samples for the Total Coliform Rule (TCR) or Ground Water Rule (GWR) (except assessment samples) electronically through the E2 system.</p>



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Monthly Operators Report for Ground Water Systems	No	<u>Do not</u> submit using e-DWR. Paper reporting required at this time.
Monthly Operators Report for Surface Water Treatment Plants	No	<u>Do not</u> submit using e-DWR. Paper reporting required at this time.
Nitrate (1040), Nitrite (1041) or Total Nitrate/Nitrite (1038)	Yes	<p>Routine samples are collected at the Point of Entry (Water Facility State Code: e.g. TP001001, or WL002005, or CH003009). The Sample Point ID is always the same as the Water Facility State Code selected. For example, if the sample was collected at Water System Facility WL001001, the Point of Entry Sampling Point ID is also WL001001.</p> <p><b><u>Important Note(s):</u></b></p> <p>1. Confirmation samples for nitrate or nitrite <u>must always</u> be submitted as Sample Type = Routine.</p> <p>2. Since compliance for nitrate and nitrite is not evaluated using running annual average, the requirement for meeting the technique/method based detection limits included in the April 24 E2 Quick Reference Guide has been rescinded. <b><u>The detection limit for nitrite will be 0.10 mg/L and that for nitrate will be 1.0 mg/L regardless of the methods used.</u></b></p> <p>Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).</p>
<u>Pesticides, Herbicides &amp; Other Organic Compounds:</u>  Those analytes included under Method 504.1 or Method 505 or Method 507 or Method 515.2 or Method 515.3 or Method 525.2 or Method 531.1.	Yes	<p>Routine samples are collected at the Point of Entry (Water Facility State Code: e.g. TP001001, or WL002005, or CH003009). The Sample Point ID is always the same as the Water Facility State Code selected.</p> <p>Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).</p> <p><b><u>Important Note(s):</u></b></p> <p>1. Lab Sample IDs for Synthetic Organic Compounds (SOCs) must include the method number at the end of the sample number. Several SOC parameters can be analyzed with multiple SOC methods. By adding the method number as a suffix to</p>

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		<p>the Sample ID number in E2/SDWIS, the overwriting of the original result will be avoided. Example: Atrazine is an analyte in both EPA Methods 507 and 525.2. If both 507 and 525.2 are being performed on sample AB123, the sample number should be entered as AB123-507 in order to enter 507 results and AB123-525.2 in order to enter 525.2 results.</p> <p>2. Please note that there have been some changes related to the SDWIS codes for some SOC parameters as listed below:</p> <table> <tr> <th><u>Parameter Code</u></th><th><u>Old SDWIS Code</u></th><th><u>New SDWIS Code</u></th></tr> <tr> <td>Alpha Chlordane</td><td>SO9</td><td>7240</td></tr> <tr> <td>Gamma-Chlordane</td><td>SO8</td><td>7245</td></tr> <tr> <td>2-Chlorobiphenyl</td><td>SO13</td><td>8915</td></tr> <tr> <td>2,3-Dichlorobiphenyl</td><td>SO4</td><td>8920</td></tr> <tr> <td>2,4,5-Trichlorobiphenyl</td><td>SO5</td><td>8940</td></tr> <tr> <td>2,2,4,4-Tetrachlorobiphenyl</td><td>SO6</td><td>8947</td></tr> <tr> <td>2,2,3,4,6-Pentachlorobiphenyl</td><td>SO7</td><td>8977</td></tr> <tr> <td>2,2,4,5,6-Hexachlorobiphenyl</td><td>SO10</td><td>9042</td></tr> <tr> <td>2,2,3,4,4,5,6-Heptachlorobiphenyl</td><td>SO11</td><td>9067</td></tr> <tr> <td>2,2,3,3,4,5,6,6-Octachlorobiphenyl</td><td>SO12</td><td>9092</td></tr> <tr> <td>Propoxur (Baygon)</td><td>SO3</td><td>2023</td></tr> </table>	<u>Parameter Code</u>	<u>Old SDWIS Code</u>	<u>New SDWIS Code</u>	Alpha Chlordane	SO9	7240	Gamma-Chlordane	SO8	7245	2-Chlorobiphenyl	SO13	8915	2,3-Dichlorobiphenyl	SO4	8920	2,4,5-Trichlorobiphenyl	SO5	8940	2,2,4,4-Tetrachlorobiphenyl	SO6	8947	2,2,3,4,6-Pentachlorobiphenyl	SO7	8977	2,2,4,5,6-Hexachlorobiphenyl	SO10	9042	2,2,3,4,4,5,6-Heptachlorobiphenyl	SO11	9067	2,2,3,3,4,5,6,6-Octachlorobiphenyl	SO12	9092	Propoxur (Baygon)	SO3	2023
<u>Parameter Code</u>	<u>Old SDWIS Code</u>	<u>New SDWIS Code</u>																																				
Alpha Chlordane	SO9	7240																																				
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2,2,3,4,6-Pentachlorobiphenyl	SO7	8977																																				
2,2,4,5,6-Hexachlorobiphenyl	SO10	9042																																				
2,2,3,4,4,5,6-Heptachlorobiphenyl	SO11	9067																																				
2,2,3,3,4,5,6,6-Octachlorobiphenyl	SO12	9092																																				
Propoxur (Baygon)	SO3	2023																																				
QC Data for Hazardous Contaminant Analysis	No	<u>Do not</u> submit using e-DWR. Paper reporting required at this time.																																				

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<u>Radiologicals:</u>  Gross Alpha (4002) Radium-226 (4020), Radium-228 (4030), Uranium, Combined (4006) Uranium, Mass (4006)	Yes	<p>All radiological samples collected on or after July 1, 2012, must be submitted electronically via the E2 system. Routine samples are collected at the Point of Entry (Water Facility State Code: e.g. TP001001, or WL002005, or CH003009). All radiological samples should have a sample type of routine. The Sample Point ID is always the same as the Water Facility State Code selected. Analytical results for Gross alpha (4002), Radium-226 (4020), and Radium-228 (4030) must be reported in picocuries per liter (PCI/L). Sample results submitted for Uranium Combined (4006) may be submitted in PCI/L or mg/l.</p> <p><b><u>Important Note(s):</u></b></p> <ol style="list-style-type: none"> <li>1. Please only submit the analytical results of parameters for which an analysis was performed. <b>Do not submit any substituted or calculated values.</b></li> <li>2. For gross alpha if a second count is performed, please report the <b><u>second</u></b> count only.</li> <li>3. All radiological samples must include a Radiological Result Count Error result value in the Radiological Result Count Error field on the General Chemistry spreadsheet template (except for total uranium mass).</li> <li>4. Report any negative radiological result values as less than the MDL.</li> <li>5. Do not submit monthly permit data.</li> <li>6. In the calculation of radionuclide compliance, the highest allowed detection limit for Gross Alpha excluding radon (4002) is 3 pCi/L, Radium-226 (4020) is 1 pCi/L, Radium-228 (4030) is 1 pCi/L and Uranium (4006) is 1 ug/L. These values will be considered the regulatory detection limits for Safe Drinking Water federally regulated radionuclides. Provided that a laboratory's detection limit is equal to or less than these regulatory detection limits, a non-detect of an analyzed (not substituted) radionuclide must be reported to E2 as less than the respective regulatory detection limit indicated above. For uranium results reported in activity</li> </ol>

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		<p>units (pCi/L) the laboratory detection limit must be equal to or less than 0.67 pCi/L in order to be reported as less than 1 ug/L.</p> <p>7. The NJDEP Water Supply Operations Element's analytical database, SDWIS, is incorrectly managing non-detected uranium results that are submitted in activity units (pCi/L). The system is not converting non-detected values in activity units to concentration units, therefore any result entered that is greater than 0.030 pCi/L is flagged as "Non-Microbial Sample Result has a Lab Reporting Level supplied that exceeds the analyte's MCL value. (SAMPLE RESULT)". The system uses 0.030 for comparison since that is the MCL of uranium in mg/L units. Due to this problem, the Water Supply Program is requesting that any non-detected uranium result be reported as either less than 1 ug/L (or 0.001 mg/L) even if the uranium analysis was performed with a radiochemical method.</p> <p>8. Please note Laboratories analyzing gross alpha New Jersey drinking water samples are to implement changes to the ECLS-R-GA method no later than January 1, 2015. After January 1, 2015, the only acceptable method for Gross Alpha will be ECLS-R-GA Rev 8.</p> <p>9. Because E2 is limited in the number of characters allowed for the method code, when submitting results through E2 please enter this method as follows: ECLS-R-GA R8 (Remember to include a space between the GA and R8.)</p>
<u>Secondary Compounds:</u>  Foaming Agents – Surfactants (2905), Alkalinity, Total (1927), Aluminum (1002), Chloride (1017), Color (1905), Copper (1022),	Yes	<p>Routine samples are collected at the Point of Entry (Water Facility State Code: e.g. TP001001, or WL002005, or CH003009). The Sample Point ID is always the same as the Water Facility State Code selected.</p> <p>Results for Color (1905) shall be reported in Color Units (CU).            Results for Odor (1920) shall be reported in TON (Threshold Odor Number).            Results for pH (1925) shall be reported in PH units (Parts Hydrogen).            Results for Temperature, °C (1996) shall be reported in °C (Degrees Celsius).            Results for conductivity shall be reported in UMHO/CM.</p>

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Corrosivity (1910), Fluoride (1025), Hardness, Carbonate (1916), Iron (1028), Manganese (1032), Odor (1920), pH (1925), Silver (1050), Sulfate (1055), Temperature, °C (1996), Total Dissolved Solids (1930), Zinc (1095)		<p>Temperature and pH are to be reported as actual concentrations. Therefore, the Less Than Indicator field shall <b>NOT</b> be valued with the Less Than (&lt;) symbol when entering results for these two parameters.</p> <p>For all other secondary compounds, sample results are to be reported in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).</p> <p><b>Important Note(s):</b></p> <ol style="list-style-type: none"> <li>1. Iron and Manganese samples collected for Distribution System monitoring requirements are collected in the distribution system. Refer to Iron and Manganese section above.</li> <li>2. For color and odor samples, do not submit a zero for the sample result. You may use a "&lt;" if the result is non-detect. For color use "&lt; 5 CU" and for odor use "&lt; 1 TON" respectively if one or both is not detected.</li> <li>3. Negative corrosivity (SDWIS Code 1910) sample results can be reported to the E2 system. However, do not submit any corrosivity samples with a zero or "&lt;" as part of the result value.</li> </ol>
<u>Total Trihalomethane (TTHM4):</u>  Chloroform (2941), Bromoform (2942),  Bromodichloromethane (2943), Chlorodibromomethane (2944)	Yes	<p>Routine analytical samples are to be collected from specific Stage 2 sample points. The specific Stage 2 sample point designations are listed in the Reference Data link under the Laboratory module of the E2 system. The Water Facility State Code should be populated with a value of DS (Distribution System) for all samples. The specific sample point found</p> <p>in the E2 Reference Data section must be inputted <b>exactly</b> as it is listed under the E2 Reference Data section or it will be rejected.</p> <p>Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).</p>

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Reporting Parameter (SDWIS Analyte Code)	e2 Reporting Capability	Comments
<p><u>Volatile Organic Compounds (VOC):</u></p> <p>Those analytes included under Method 502.2, Method 524.2. and 524.3</p>	Yes	<p>Routine samples are collected at the Point of Entry (Water Facility State Code: e.g. TP001001, or WL002005, or CH003009). The Sample Point ID will always be the same as the Water Facility State Code.</p> <p>For those Water Systems with a SDW permit requiring the collection of influent/effluent VOC samples on a biweekly or other basis, these results shall <b>not</b> be sent to the NJDEP-BSDW. These results do <u>not</u> have to be on state input forms, or submitted via E-DWR, and should be retained by the water system for inspection. Only quarterly, annual, or once every three year Point of Entry (POE) compliance VOC samples should be sent to the NJDEP-BSDW</p> <p>Report results in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter).</p> <p><b><u>Important Note(s):</u></b></p> <ol style="list-style-type: none"> <li>Do not submit meta xylene (2995) and para xylene (2962) as separate analytes. They must be submitted together as meta and para xylenes using SDWIS Code 2963. This is being required because of the inability to separate and detect meta and para xylene isomers during GC/MS analysis using EPA methods 502.2 and 524.2.</li> <li>In reporting total xylenes for compliance, a laboratory must report the sample results for the following:  Meta and para xylene (2963)  Ortho-xylene (2997)  Total xylenes (2955)</li> <li>When reporting VOCs to the E2 system you are only required to report the 26 regulated compounds in the SDWIS sample schedules to comply with the VOC rule. If you calibrate and analyze for more than the 26 regulated VOC compounds please submit the results of any unregulated VOC compounds that are detected.</li> </ol>

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Reporting Parameter (SDWIS Analyte Code)	e2 Reporting Capability	Comments
<u>Water Quality Parameters:</u>  Lead (1030), Copper (1022), Temperature, °C (1996), pH (1925), Conductivity (1064), Total Alkalinity (1927), Calcium (1016), Orthophosphate (1044), Silica (1049)	Yes	<p>Lead and Copper routine samples for the Water Quality requirement are collected at the Point of Entry (Water Facility State Code: e.g. TP001001, or WL002005, or CH003009). The Sample Point ID will always be the same as the Water Facility State Code selected.</p> <p>For all other parameters in this category (Water Quality), routine samples may be collected at either the Distribution System (Water Facility State Code: DS) or Point of Entry (Water Facility State Code: e.g. TP001001, or WL002005, or CH003009). The Sample Point ID will always be the same as the Water Facility State Code (i.e. DS).</p> <p>For Water Quality parameters that are to be sampled at the Point of Entry, only samples taken from the Point of Entry should be submitted unless requested by the NJDEP-BSDW, (i.e. samples taken before treatment, were applicable, and should not be submitted).</p> <p>Results for the following parameters shall be reported in mg/L (Milligrams per Liter) or ug/L (Micrograms per Liter):</p> <p>Lead (1030),  Copper (1022),  Total Alkalinity (1927),  Calcium (1016),  Orthophosphate (1044),  Silica (1049)</p> <p>Results for pH (1925) shall be reported in PH units (Parts Hydrogen).  Results for Conductivity (1064) @ 25°C shall be reported in uMHO/cm.  Results for Temperature, °C (1996) shall be reported in °C (Degrees Celsius).</p> <p><b><u>Important note(s):</u></b></p> <p>Lead and Copper distribution system (DS) samples shall <u>not</u> be reported for Water Quality parameter compliance sampling.</p>

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#### Notes:

1. As a guide, the NJDEP periodically provides each Community and Nontransient Noncommunity water system with a monitoring schedule. Please make sure that you obtain the monitoring schedule from your water system which outlines the routine samples required and the specific Water System Facility State Codes and/or Sample Point IDs for each system. Also note, the monitoring schedules may change based on samples and results submitted. Please refer to the Code of Federal Regulations (40 CFR 141) and the New Jersey Safe Drinking Water Act Regulations (N.J.A.C. 7:10) to confirm sampling requirements.
2. It is extremely important that you maintain contact with the water system regarding any potential water system facility/sampling point changes. The water system must notify both the NJDEP-BSDW and the laboratory responsible for collecting the necessary drinking water compliance samples of all changes to the Water System Facilities. Water System Facilities can change as treatment is added or removed from a well or as wells with no treatment are manifolded and unmanifolded (i.e. Common Headers are activated and inactivated). As a Water System Facility changes for a water system, it is in the best interest of the water system to notify the NJDEP-BSDW of this change, so that the necessary changes to the Safe Drinking Water Information System (SDWIS-State) can be made, including the updating of the water system's inventory and sample schedule(s). It is also recommended that the water system inform the laboratory responsible for collecting the necessary drinking water compliance samples of these changes and in particular changes to the water systems sample schedule. Failure to collect the drinking water compliance sample(s) from the proper water system facility will result in Monitoring and Reporting Violations for the water system.
3. To avoid non-submittal violations for any Water System facility that is not used at all during the monitoring period (i.e. quarter or year) that monitoring was required, a paper report form (i.e. Nitrate, Inorganic and/or Volatile Organic Report) may be submitted which clearly marks "Plant Not in Service during the Monitoring Period". The form shall contain the monitoring period for which the plant was not in service. **Alternatively, you can send an e-mail to the water supply mailbox ([Watersupply@dep.nj.gov](mailto:Watersupply@dep.nj.gov)). In the body of the e-mail, please specify the water system facility and monitoring period(s) in which it was not active.**
4. **IT IS EXTREMELY IMPORTANT THAT YOU DO NOT SUBMIT ANY PAPER REPORTING FORMS TO NJDEP FOR ANY OF THE SAMPLES THAT HAVE AN E2 AND SDWIS ACCEPTED STATUS.**
5. Do not submit any special characters (i.e. #, &, -, @, \*) as part any sample result values. The E2 system has problems processing result values that include special characters.
6. Please note that the Analysis Method Code fields in both the General Chemistry and Coliform Excel templates are now mandatory. You must enter the analysis method in the spreadsheet when uploading data. The method code must be entered exactly as it is listed under the Reference Data section in E2 (including any dashes, periods, slashes, etc.) or it will be rejected by the system. The Reference Data section is located on the main page of the E2 system under the Laboratory module.
7. **Flagged Sample Results:** Beginning on or about 02/25/2013, the E2 system will have additional validation checks regarding the flagging of certain sample result values. These new validation checks will compare sample result values of certain parameters with their respective regulatory Minimum Reporting Levels (MRL) or their regulatory Detection Limits (DL). If the sample results for a parameter in this list below are reported with a less than sign and are higher than the values in the last column ("Any value greater than those listed below will be flagged") of the below-listed chart they will have a flagged status



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under the View Lab Samples tab in E2. Samples with a flagged status must be corrected and resubmitted. As a result, any lab that receives a flagged status for a sample must submit an E2 Deletion Request form to have the sample rejected in E2 and deleted from SDWIS.

8. The requirement to report results in E2 to the regulatory reporting level, whether a detection limit or minimum reporting level, will be extended to regulated Inorganic Organic Compounds (IOCs), Synthetic Organic Compounds (SOCs), lead, copper, and radiological as illustrated in the tables beginning on the next page.
9. When reporting radionuclide results, please remember that it is required that the radiological result count error be included with the reported activity.
10. Since compliance for nitrate and nitrite is not evaluated using running annual average, the requirement for meeting the technique/method based detection limits included in the April 24 E2 Quick Reference Guide has been rescinded. The detection limit for nitrite will be 0.10 mg/L and that for nitrate will be 1.0 mg/L regardless of the methods used.
11. As a reminder to all labs please check your sample dates before uploading your submission to the E2 system. We have received several submissions with sample years of “1900”. This causes major problems for the E2/SDWIS system when a submission with this date is being processed and validated.

#### **MRLs/DLs For Flagged Sample Results:**

<b><u>DBPs</u></b>	<b><u>Analyte Code</u></b>	<b><u>Any value greater than those listed below will be flagged</u></b>
<b><u>Haloacetic Acids</u></b>		
Monochloroacetic acid	2450	0.0020 mg/L
Dichloroacetic acid	2451	0.0010 mg/L
Trichloroacetic acid	2452	0.0010 mg/L
Bromoacetic acid	2453	0.0010 mg/L
Dibromoacetic acid	2454	0.0010 mg/L
<b><u>Trihalomethanes</u></b>	<b><u>Analyte Code</u></b>	<b><u>Any value greater than those listed below will be flagged</u></b>
Chloroform	2941	0.0010 mg/L
Bromoform	2942	0.0010 mg/L
Dichlorobromomethane	2943	0.0010 mg/L

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Chlorodibromomethane	2944	0.0010 mg/L
	<b><u>Analyte Code</u></b>	<b><u>Any value greater than those listed below will be flagged</u></b>
Chlorite	1009	0.020 mg/L
Bromate	1011	0.0050 mg/L
<b><u>Volatile Organic Compounds</u></b>	<b><u>Analyte Code</u></b>	<b><u>Any value greater than those listed below will be flagged</u></b>
Benzene	2990	0.00054 mg/L
Carbon Tetrachloride	2982	0.00054 mg/L
1,2-Dichlorobenzene	2968	0.00054 mg/L
1,3-Dichlorobenzene	2967	0.00054 mg/L
1,4-Dichlorobenzene	2969	0.00054 mg/L
<b><u>Volatile Organic Compounds (continued)</u></b>	<b><u>Analyte Code</u></b>	<b><u>Any Value greater than those listed below will be flagged</u></b>
1,1-Dichloroethane	2978	0.00054 mg/L
1,2-Dichloroethane	2980	0.00054 mg/L
1,1-Dichloroethene	2977	0.00054 mg/L
cis-1,2-Dichloroethene	2380	0.00054 mg/L
trans-1,2-Dichloroethene	2979	0.00054 mg/L
1,2-Dichloropropane	2983	0.00054 mg/L
Ethylbenzene	2992	0.00054 mg/L
Methyl tertiary Butyl Ether	2251	0.00054 mg/L
Methylene Chloride	2964	0.00054 mg/L
Monochlorobenzene	2989	0.00054 mg/L
Naphthalene	2248	0.00054 mg/L

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Styrene	2996	0.00054 mg/L
1,1,2,2-Tetrachloroethane	2988	0.00054 mg/L
Tetrachloroethene	2987	0.00054 mg/L
Toluene	2991	0.00054 mg/L
1,2,4-Trichlorobenzene	2378	0.00054 mg/L
1,1,1-Trichloroethane	2981	0.00054 mg/L
1,1,2-Trichloroethane	2985	0.00054 mg/L
Trichloroethene	2984	0.00054 mg/L
Vinyl Chloride	2976	0.00054 mg/L
Xylenes [total]	2955	0.00054 mg/L
<b><u>Lead &amp; Copper</u></b>	<b><u>Analyte Code</u></b>	<b><u>Any Value greater than those listed below will be flagged</u></b>
Lead	1030	0.0054 mg/L
Copper	1022	0.0504 mg/L
<b><u>Radionuclides</u></b>	<b><u>Analyte Code</u></b>	<b><u>Any Value greater than those listed below will be flagged</u></b>
Gross alpha (excluding radon)	4002	3.4 pCi/L
Radium 226	4020	1.4 pCi/L
Radium 228	4030	1.4 pCi/L
Uranium	4006	1.4 ug/L or 0.0014 mg/L
<b><u>SOCs</u></b>	<b><u>Analyte Code</u></b>	<b><u>Any Value greater than those listed below will be flagged</u></b>
Alachlor	2051	0.00024 mg/L
Atrazine	2050	0.00014 mg/L
Benzo[a]pyrene	2306	0.000024 mg/L
Carbofuran	2046	0.00094 mg/L

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Chlordane	2959	0.00024 mg/L
Dalapon	2031	0.0014 mg/L
Di[2-ethylhexyl]adipate	2035	0.00064 mg/L
Di[2-ethylhexyl]phthalate	2039	0.00064 mg/L
Dinoseb	2041	0.00024 mg/L
Diquat	2032	0.00044 mg/L
Endothall	2033	0.0094 mg/L
Endrin	2005	0.000110 mg/L
Glyphosate	2034	0.0064 mg/L
Heptachlor	2065	0.000044 mg/L
Heptachlor Epoxide	2067	0.000110 mg/L
Hexachlorobenzene	2274	0.00014 mg/L
Hexachlorocyclopentadiene	2042	0.00014 mg/L
Lindane (BHC-Gamma)	2010	0.000044 mg/L
Methoxychlor	2015	0.00014 mg/L
Oxamyl	2036	0.0024 mg/L
PCBs	2383	0.00014 mg/L
Pentachlorophenol	2326	0.000044 mg/L
Picloram	2040	0.00014 mg/L
Simazine	2037	0.000074 mg/L
Toxaphene	2020	0.0014 mg/L
Dioxin	2063	0.0000000054 mg/L
2,4-D	2105	0.000220 mg/L
2,4,5-TP	2110	0.00024 mg/L

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#### Detection Limits for Primary Inorganics Based on the Analytical Method Used

The required detection limits (DL) for primary inorganics are listed in a table in 40CFR 141.23, “Detection Limits for Inorganic Contaminants.” For each inorganic, the DL is dependent on the analytical technique. The Bureau of Safe Drinking Water has developed a table that includes the analytical method(s) that correspond to each analytical technique allowed in the analysis of a particular primary inorganic. This table is a reference for determination of the highest allowed DL that can be reported for a non-detected primary inorganic. Non-detects reported at values higher than those in the list may be flagged by E2 with the following message: “FLAGGED SAMPLE RESULT: Non-microbial Sample Result has a Lab Reporting Level supplied that exceeds the analyte’s SDW regulatory reporting limit. (SAMPLE RESULT).”

<u>Inorganic</u>		<u>MCL</u>	<u>Method</u>	<u>Method</u>	<u>Method</u>	<u>Method</u>
		(µg/L)				
<b>Antimony (1074)</b>		6	EPA 200.8	EPA 200.9	ASTM D 3697	SM 3113B
	<i>Technique</i>		<i>ICP-MS</i>	<i>AA-Platform</i>	<i>Hydride AA</i>	<i>AA-Furnace</i>
	<b>DL (ug/L)</b>		<b>0.4</b>	<b>0.8</b>	<b>1</b>	<b>3</b>
<b>Arsenic (1005)</b>					SM 3113B	ASTM D 2972 (B)
		5	EPA 200.8	EPA 200.9	ASTM D 2972 (C)	SM 3114B
	<i>Technique</i>		<i>ICP-MS</i>	<i>AA-Platform</i>	<i>AA-Furnace</i>	<i>Hydride AA</i>
	<b>DL (ug/L)</b>		<b>1.4</b>	<b>0.5</b>	<b>1</b>	<b>1</b>
<b>Barium (1010)</b>		2000	SM 3120B			
			EPA 200.7	EPA 200.8	SM 3111D	SM 3113B
	<i>Technique</i>		<i>ICP</i>	<i>ICP-MS</i>	<i>AA-Direct</i>	<i>AA-Furnace</i>
	<b>DL (ug/L)</b>		<b>2</b>	<b>2</b>	<b>100</b>	<b>2</b>
<b>Beryllium (1075)</b>		4	EPA 200.7			SM 3113B
			SM 3120B	EPA 200.8	EPA 200.9	ASTM D 3645 (B)
	<i>Technique</i>		<i>ICP</i>	<i>ICP-MS</i>	<i>AA-Platform</i>	<i>AA-Furnace</i>
	<b>DL (ug/L)</b>		<b>0.3</b>	<b>0.3</b>	<b>0.02</b>	<b>0.2</b>

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<b><u>Inorganic</u></b>		<b><u>MCL</u></b>	<b><u>Method</u></b>	<b><u>Method</u></b>	<b><u>Method</u></b>	<b><u>Method</u></b>
		(µg/L)				
<b>Cadmium (1015)</b>		5	SM 3120B			
			EPA 200.7	EPA 200.8	EPA 200.9	SM 3113B
	<i>Technique</i>		<i>ICP</i>	<i>ICP-MS</i>	<i>AA-Platform</i>	<i>AA-Furnace</i>
	<b>DL (ug/L)</b>		<b>1</b>	<b>0.5</b>	<b>0.05</b>	<b>0.1</b>
<b>Chromium (1020)</b>		100	SM 3120B			
			EPA 200.7	EPA 200.8	EPA 200.9	SM 3113B
	<i>Technique</i>		<i>ICP</i>	<i>ICP-MS</i>	<i>AA-Platform</i>	<i>AA-Furnace</i>
	<b>DL (ug/L)</b>		<b>7</b>	<b>0.9</b>	<b>0.1</b>	<b>1</b>
<b>Cyanide (1024)</b>		200			SM 4500-CN C, G	SM 4500-CN C, E
			EPA 335.4	SM 4500-CN C, F	ASTM D 2036 (B)	ASTM D 2036 (A)
	<i>Technique</i>		<i>Spect, Distill Semi auto</i>	<i>Distill, Selective Electrode</i>	<i>Spect, Distil, Amenable</i>	<i>Spect, Distil, Manual</i>
	<b>DL (ug/L)</b>		<b>5</b>	<b>50</b>	<b>20</b>	<b>20</b>
<b>Mercury (1035)</b>		2	SM 3112B			
			ASTM D 3223			
			EPA 245.1	EPA 245.2	EPA 200.8	
	<i>Technique</i>		<i>Manual Cold Vapor</i>	<i>Automated Cold Vapor</i>	<i>ICP-MS</i>	
	<b>DL (ug/L)</b>		<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	
<b>Nickel (1036)</b>		NA	EPA 200.7	EPA 200.8	SM 3113B	EPA 200.9
	<i>Technique</i>		<i>ICP</i>	<i>ICP-MS</i>	<i>AA-Furnace</i>	<i>AA-Platform</i>
	<b>DL (ug/L)</b>		<b>5</b>	<b>0.5</b>	<b>1</b>	<b>0.6</b>

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<b><u>Inorganic</u></b>		<b><u>MCL</u></b>	<b><u>Method</u></b>	<b><u>Method</u></b>	<b><u>Method</u></b>	<b><u>Method</u></b>
		(µg/L)				
<b>Nitrate (1040)</b>		10,000	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<b>DL (ug/L)</b>	<b>1000</b>				
<b>Nitrite (1041)</b>		1000	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<b>DL (ug/L)</b>	<b>100</b>				
<b>Selenium (1045)</b>		50			SM 3114B	SM 3113B
			EPA 200.8	EPA 200.9	ASTM D 3859 (A)	ASTM D 3859 (B)
	<i>Technique</i>		<i>ICP-MS</i>	<i>AA-Platform</i>	<i>Hydride AA</i>	<i>AA-Furnace</i>
	<b>DL (ug/L)</b>		<b>8</b>	<b>2</b>	<b>2</b>	<b>2</b>
<b>Thallium (1085)</b>		2	EPA 200.8	EPA 200.9	SM 3113B	
	<i>Technique</i>		<i>ICP-MS</i>	<i>AA-Platform</i>	<i>AA-Furnace</i>	
	<b>DL (ug/L)</b>		<b>0.3</b>	<b>0.7</b>	<b>1</b>	